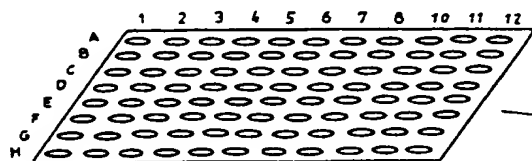
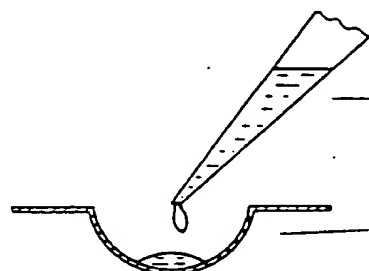


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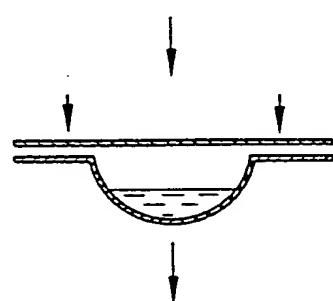
FIG. 1



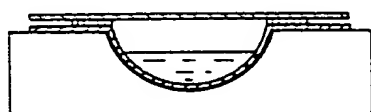
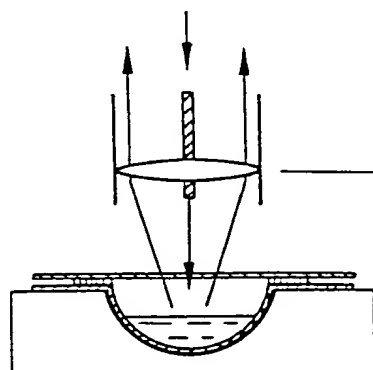
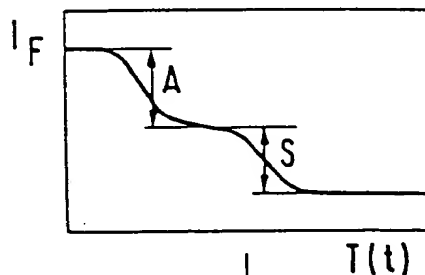
BASE SHEET

SAMPLE, CA. 50  $\mu$ lLYOPHILIZED  
AMPLIFICATION  
REAGENTS

- ENZYMES
- BUFFER
- PRIMER
- STANDARD COPIES
- LABELED PROBE



SEALING

CONTROLLABLE  
THERMOBLOCKON-LINE LASER  
DETECTION SYSTEMTIME-RESOLVED  
FLUORESCENCE INTENSITY

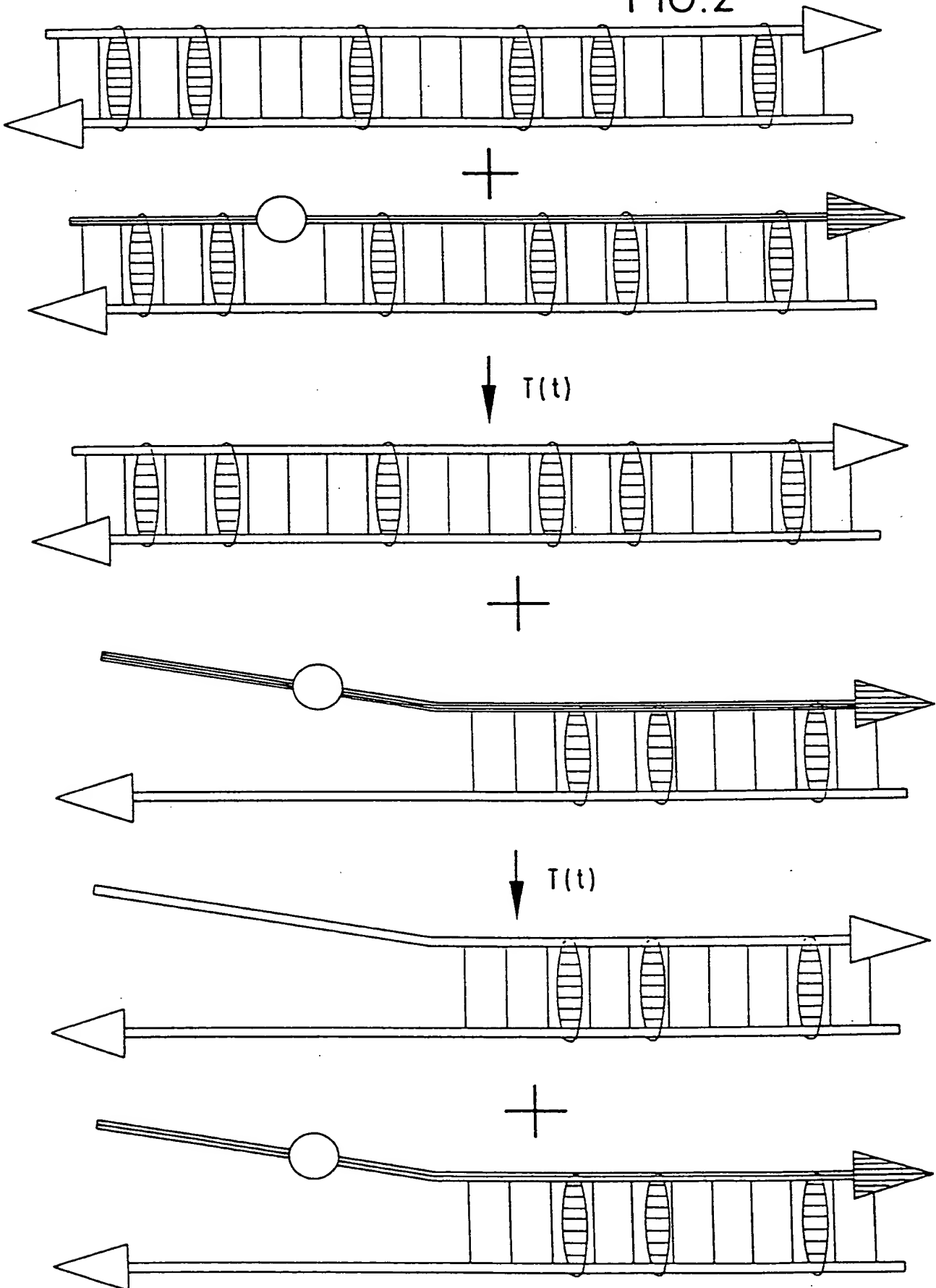
OPPORTUNITY TO ARCHIVE,  
REPEAT ANALYSES,  
DISPOSE WITHOUT  
OPENING REACTION CHAMBER

ANALYSIS  
PRINTED REPORT

18

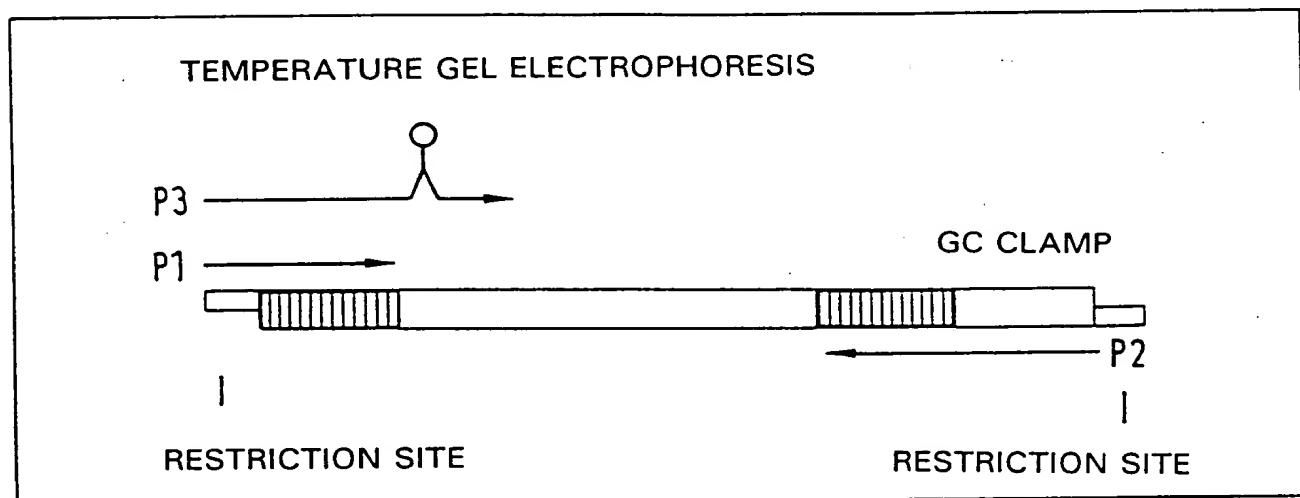
- 2/12 -

FIG. 2

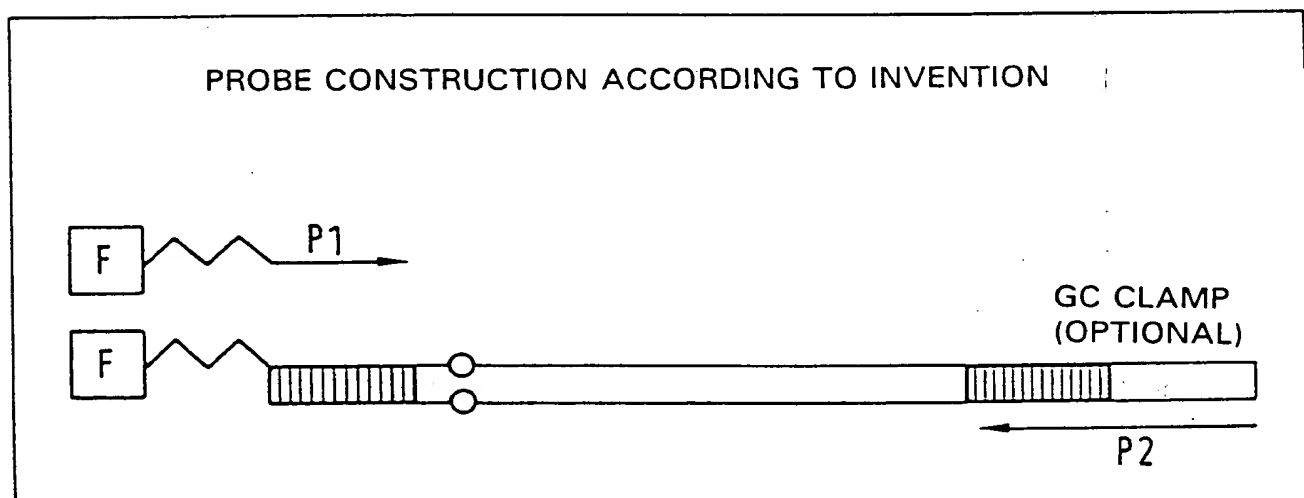


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FIG. 3



a)



b)

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FIG. 4

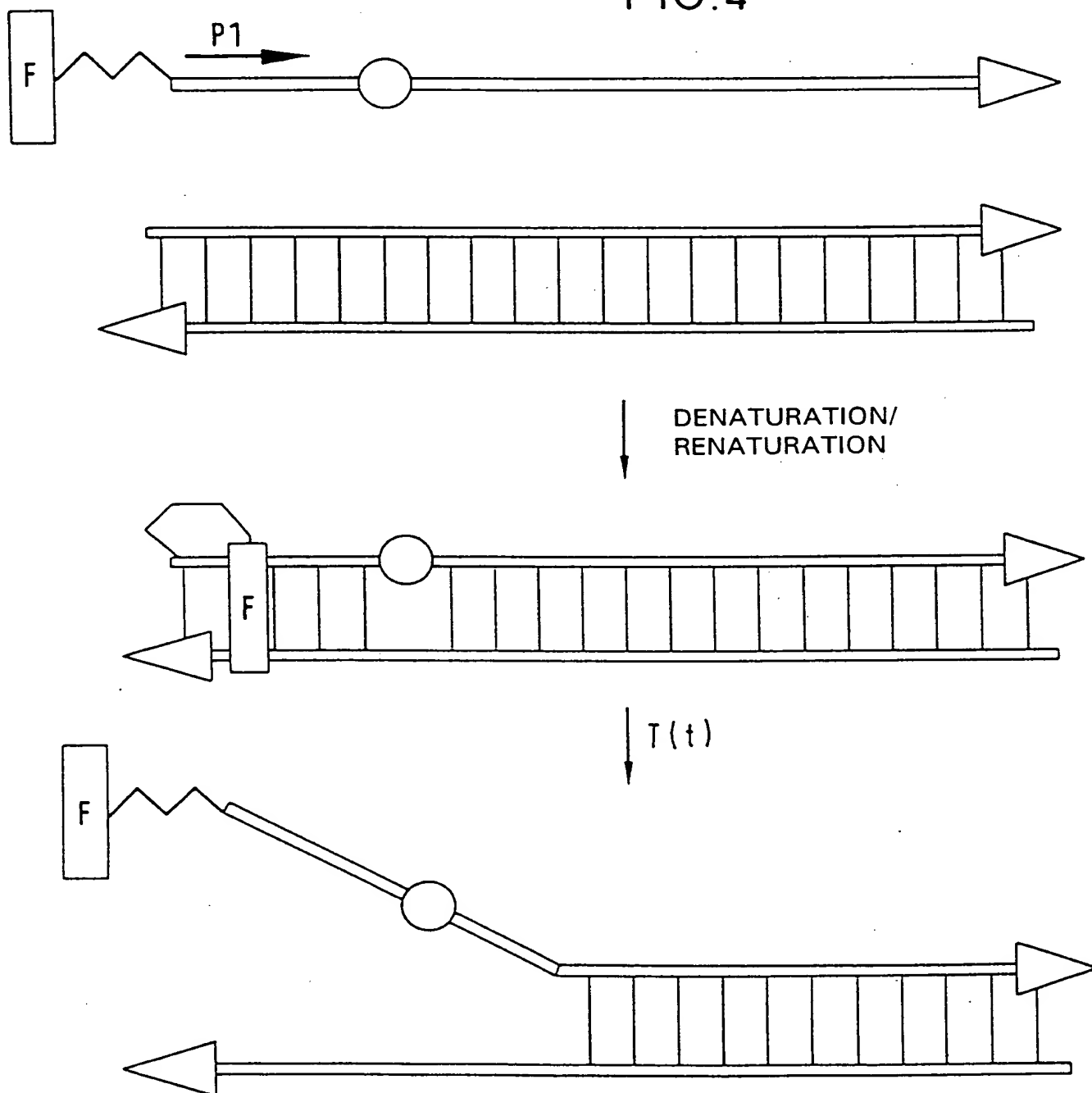
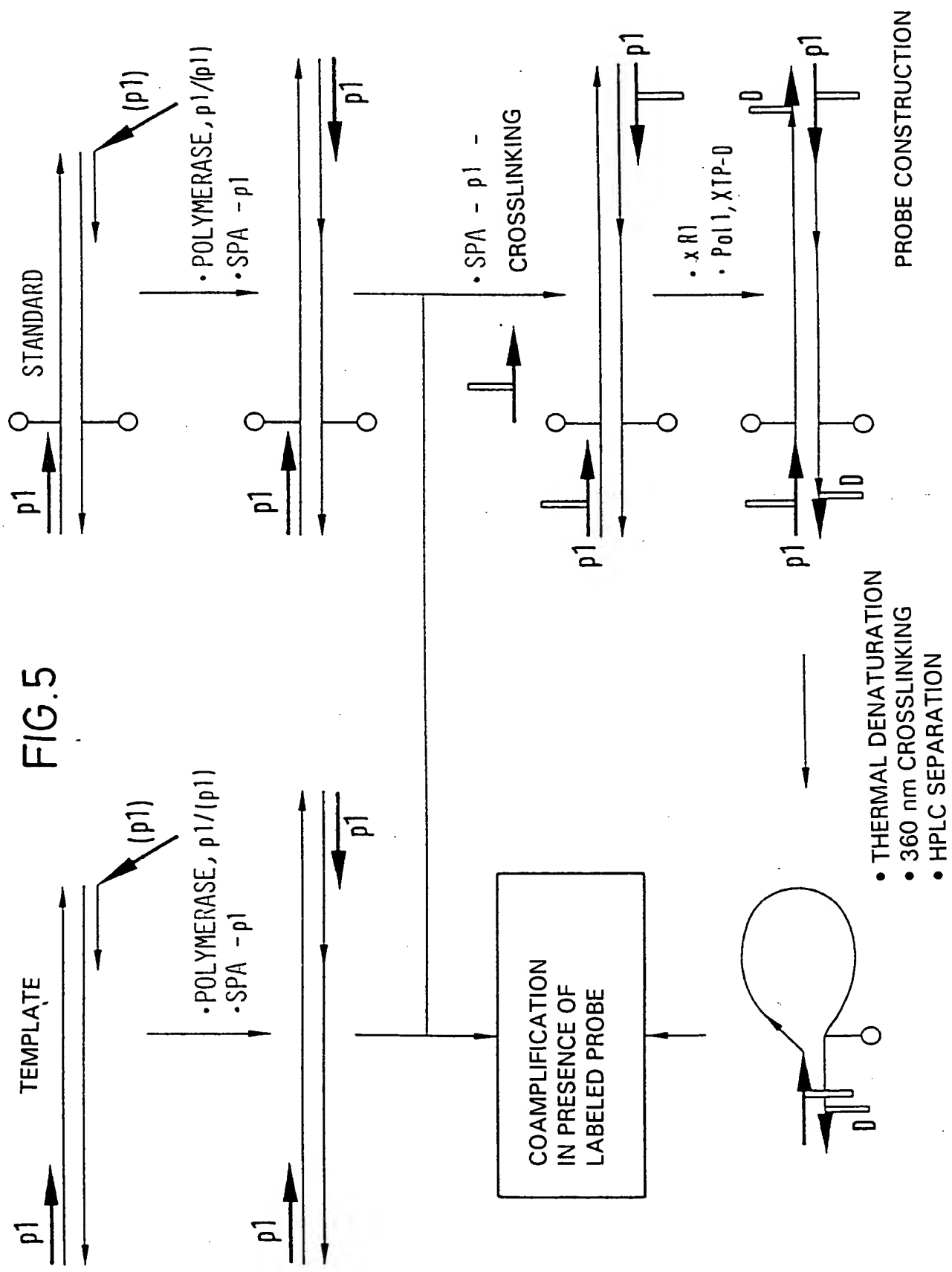
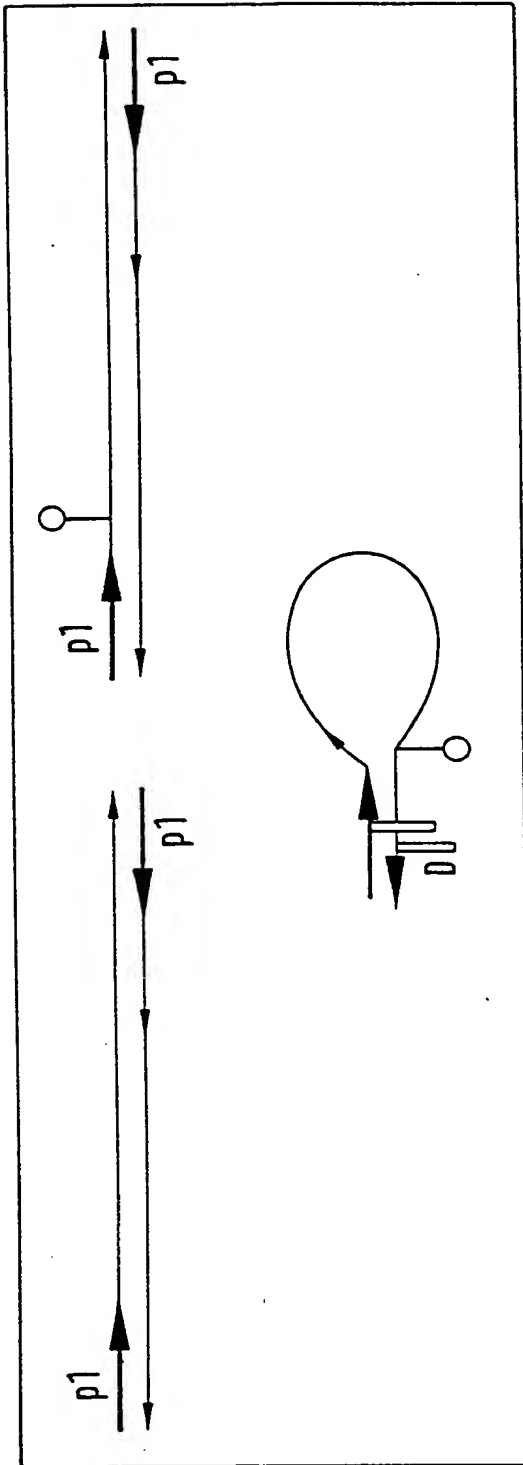


FIG. 5



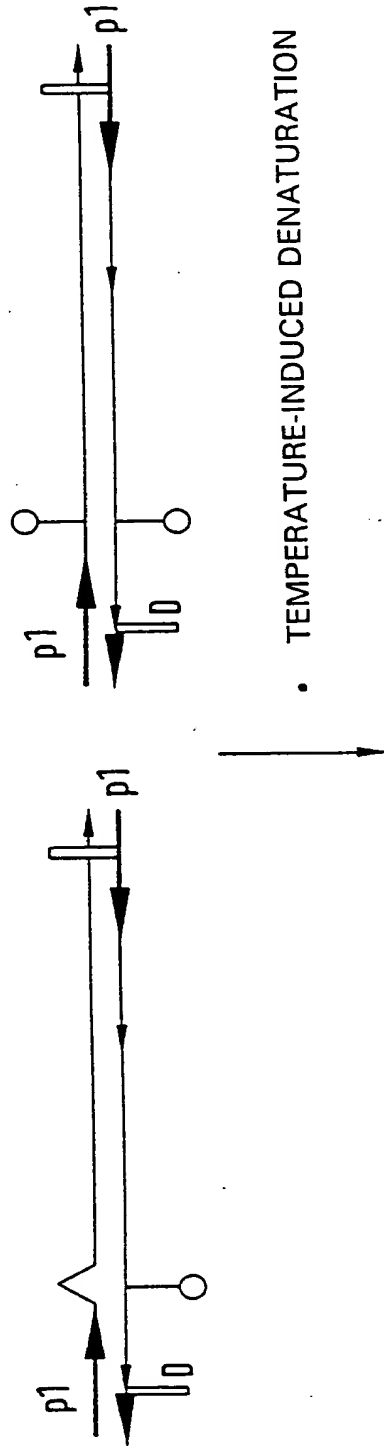
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COAMPLIFICATION  
IN PRESENCE OF  
LABELED PROBE



- 254-310 nm
- DENATURATION/RENATURATION
- 360 nm

FIG. 6



- TEMPERATURE-INDUCED DENATURATION

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FIG. 7

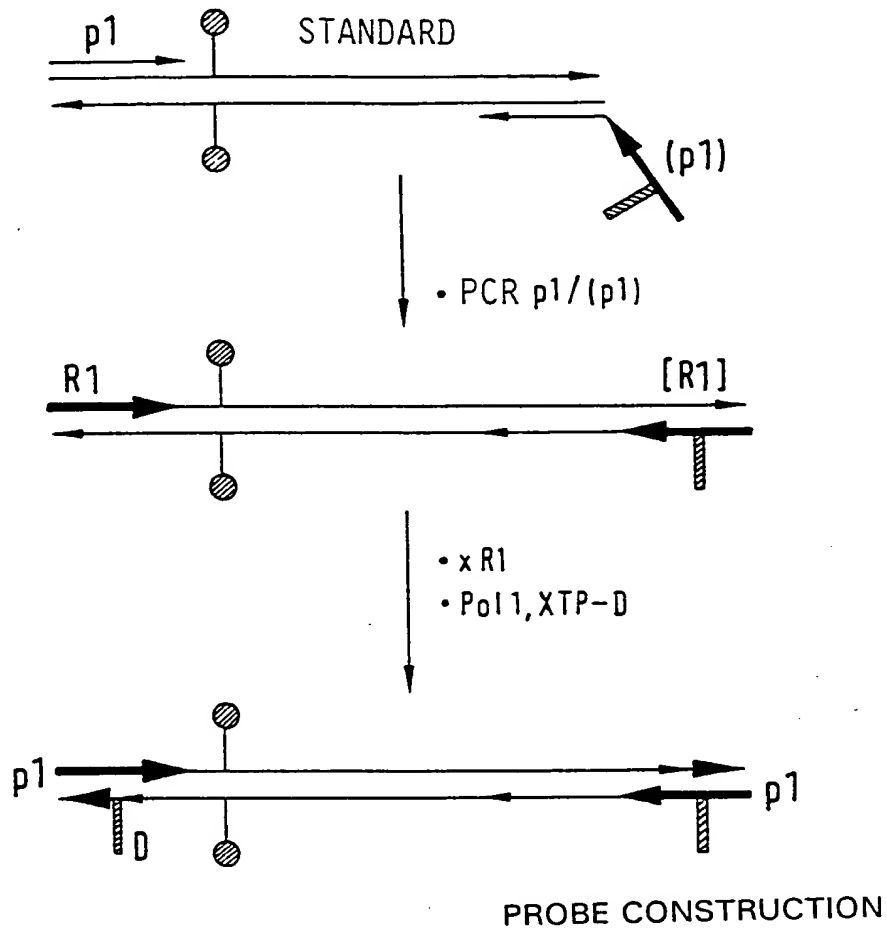
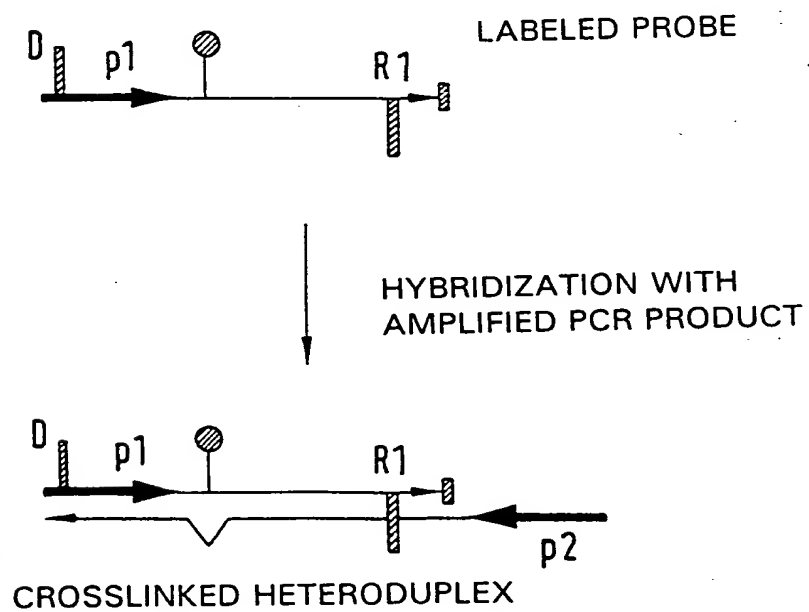
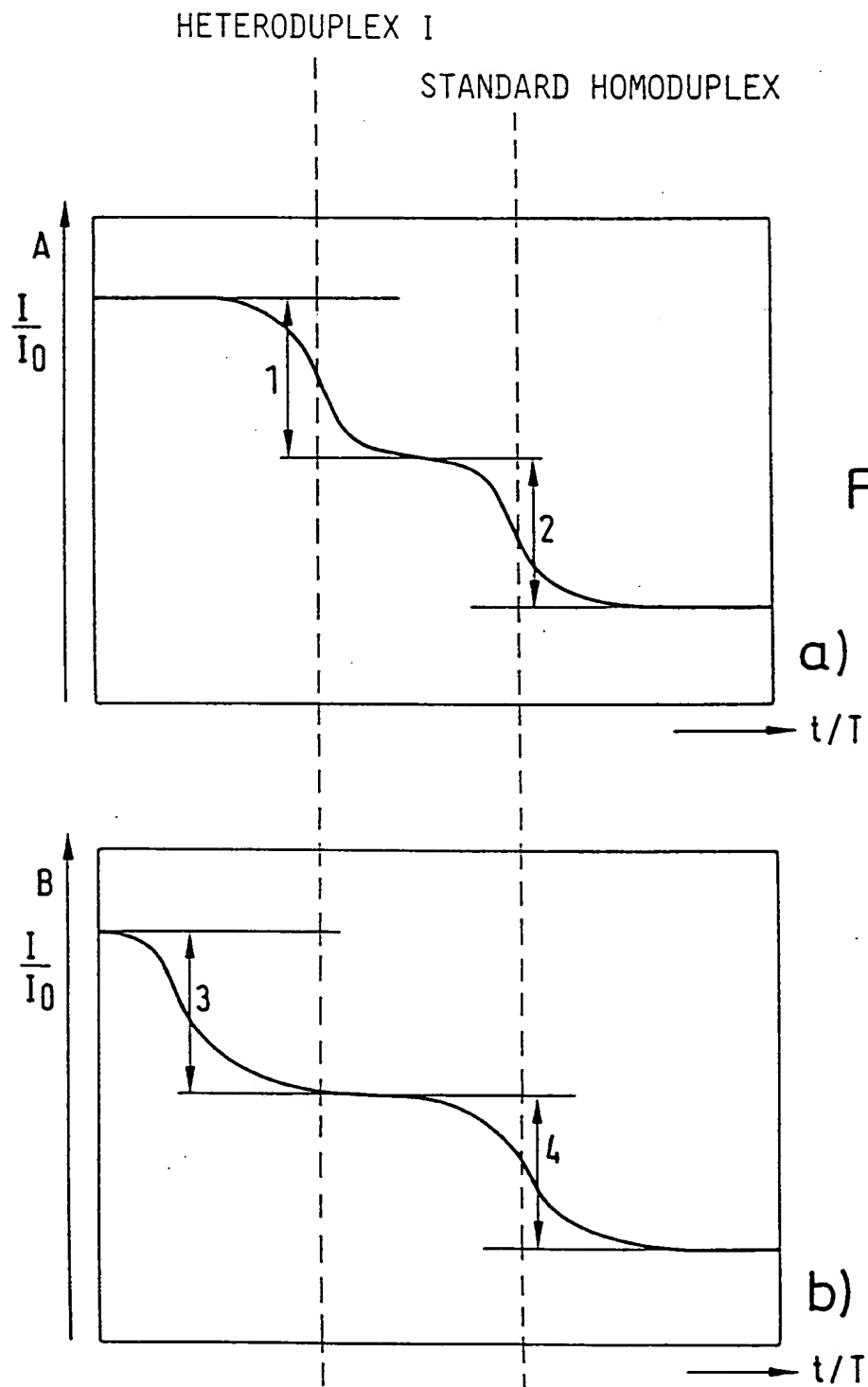


FIG. 8

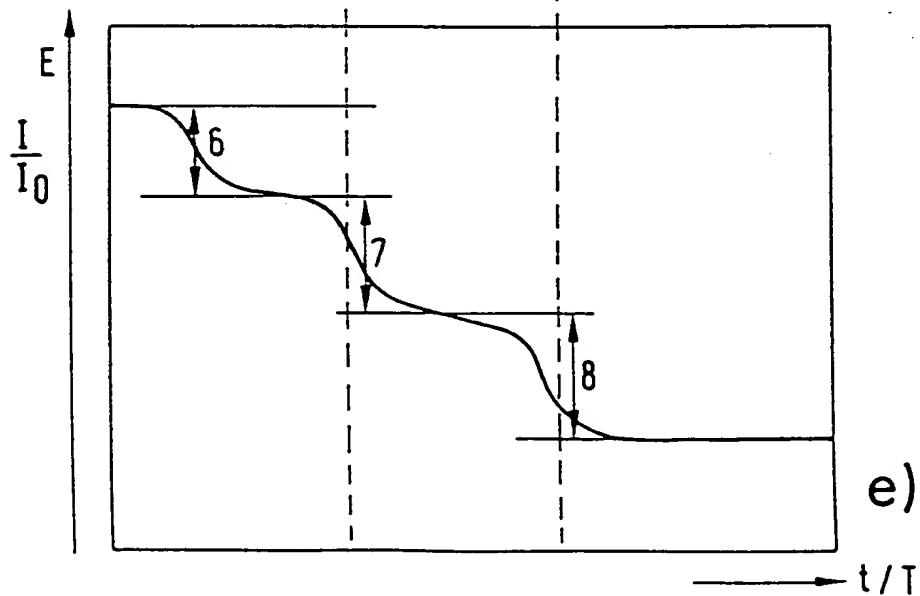
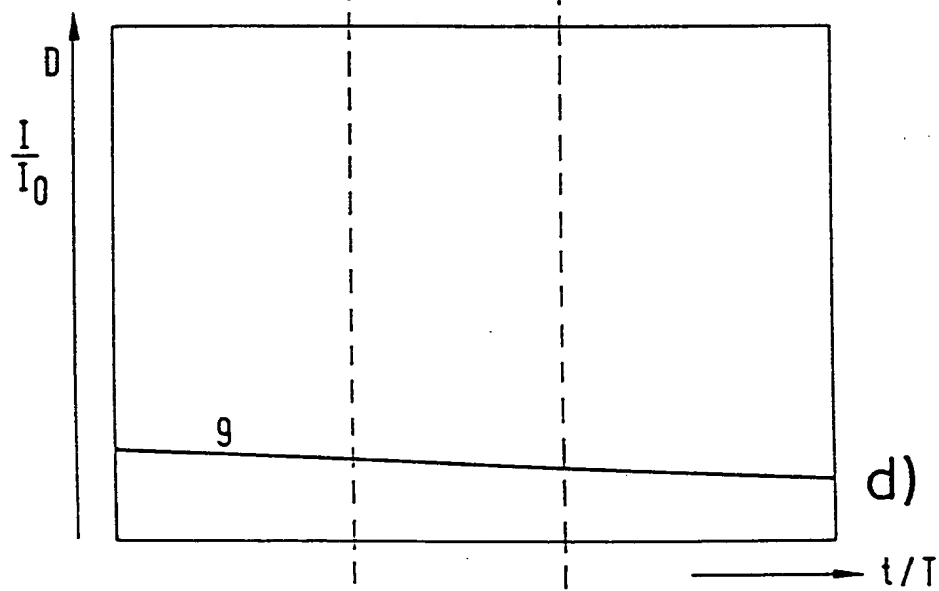
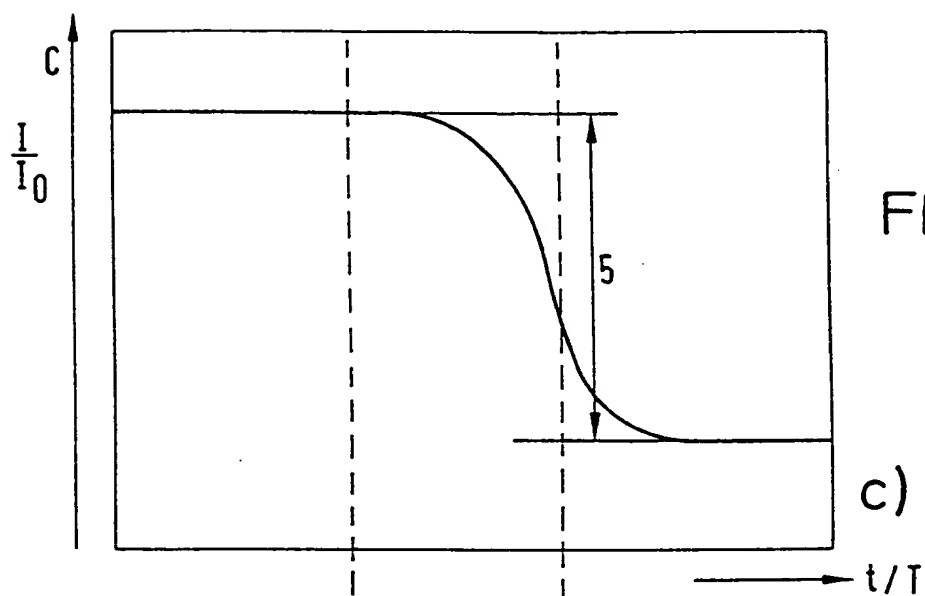


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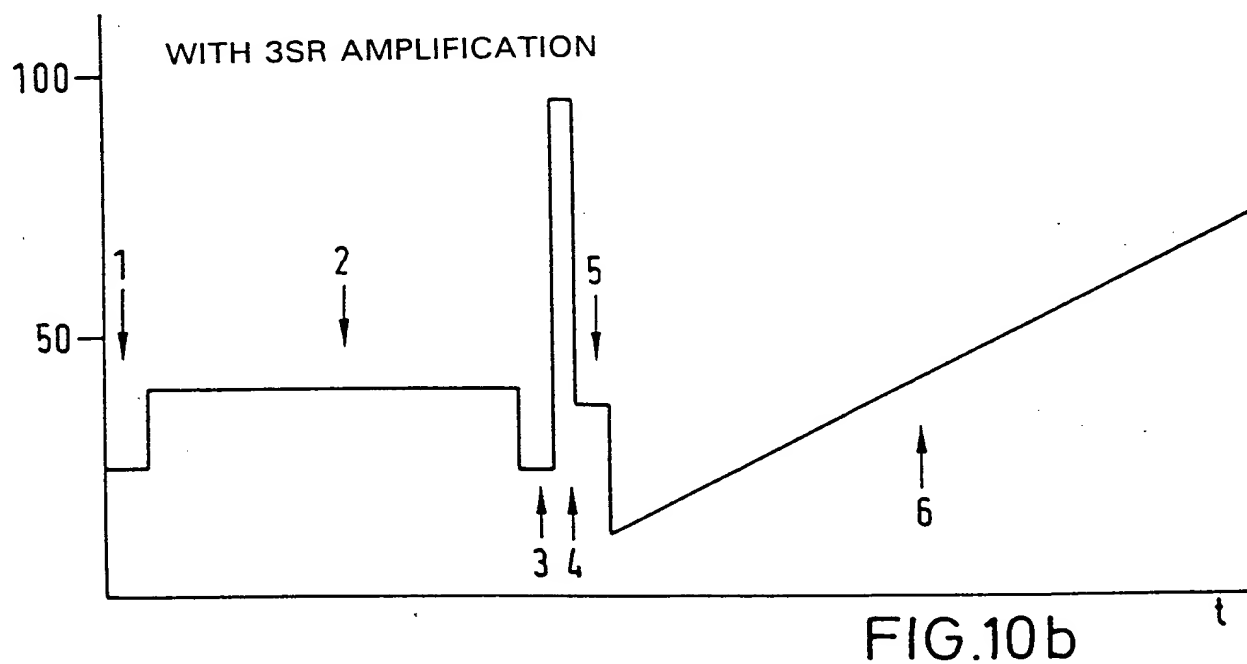
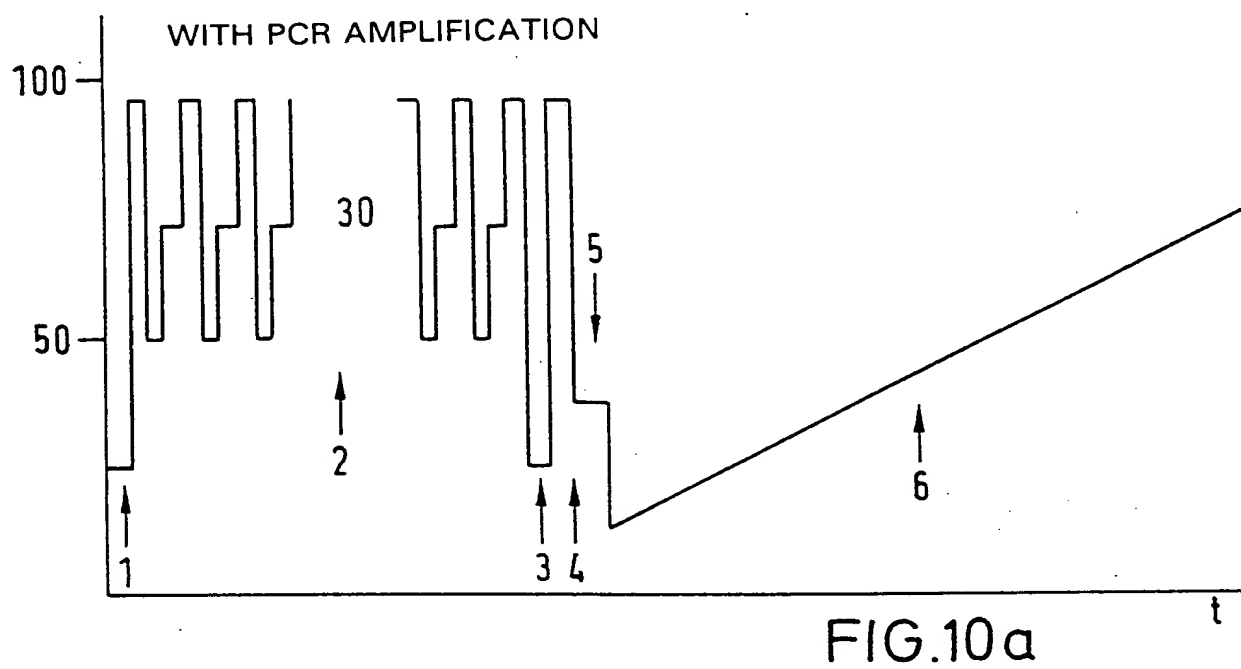
## EXPERIMENTAL RESULTS (SCHEMATIC)



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ANALYTICS

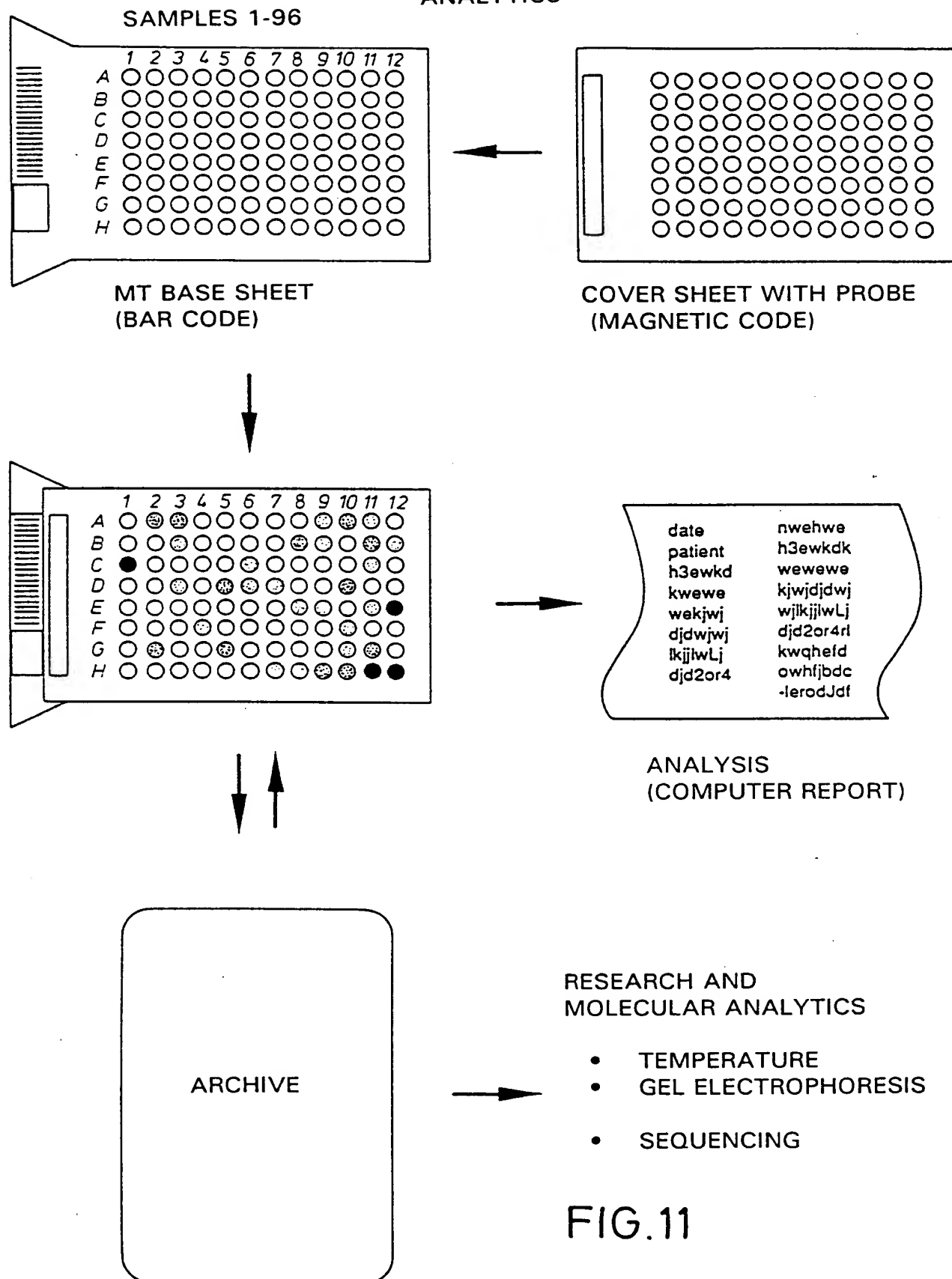
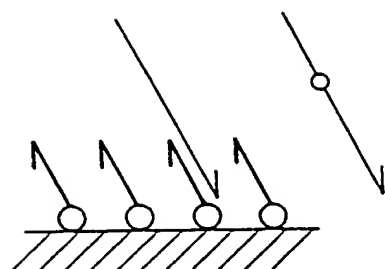


FIG.11

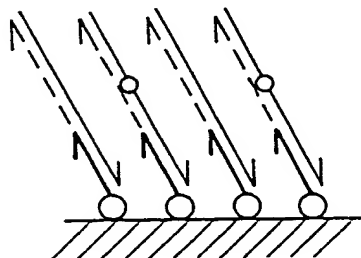
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## DILUTION ASSAY

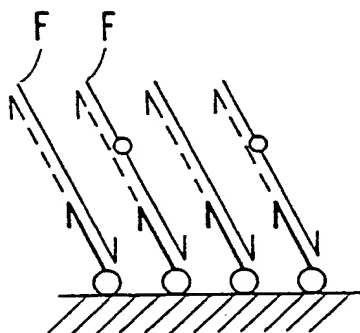
FIG.12

AMPLIFICATION VIA  
SURFACE-BOUND PRIMER P2

AMPLIFICATION



- ADDITION OF PROBE
- HYBRIDIZATION



TEMPERATURE-INDUCED SEQUENTIAL DISSOCIATION  
RESULTS IN DILUTION OF SURFACE-BOUND  
FLUORESCENT DYES OR THEIR CONCENTRATION  
IN SOLUTION